

FIGURE 1A

[illegible]

[illegible]

GGGGGCGGCCCTTCCCCCGTCACTTCCTGCCAGGCTGGGGCCCCGAGCCGC

FIGURE 1C

Comparison of human (HUM) and mouse (MUS) staufen sequences

			→ RBD1	
HUM	MKLGKKPMYKPVDPYSRMQSTYNYNMRGGAYPPRYFYFFVPPLLYQVELSVGGQQFNGK	60		
			
MUS	MYKPVDPHSRMQSTYSYGMRRGGAYPPRYFYFFVPPLLYQVELSVGGQQFNGK			
	RBD1←		→ RBD2	
HUM	GKTRQAAKHDAAKALRILQNEPLPERLEVNGRESEENLNKSEISQVFEIALKRNLFPVN	120		
	::			
MUS	GKMRPPVKHDAPARALRTLQSEPLPERLEVNGREAEEENLNKSEISQVFEIALKRNLFPVN			
			RBD2←	
HUM	FEVARESGPPHMKNFVTKVSVGEFVGE GEGKSKKISKKNAAIAVLEELKKLPPLPAVERV	180		
			
MUS	FEVARESGPPHMKNFVTRVSVGEFVGE GEGKSKKISKKNAAARAVLEQLRRLPPLPAVERV			
			→ RBD3	
HUM	KPRIKKKTKPIVKPQTSPEYGGINPISRLAQIQAKKEKEPEYTLLTERGLPRRREFVM	240		
 :			
MUS	KPRIKKKSQPTCK--TAPDYGQGMNPISRLAQIQAKKEKEPEYMLLTERGLPRRREFVM			
	RBD3←		→ TED	
HUM	QVKVGNHTAEGTGNNKVAKRNAENMLEILGFKVPQROPTKPALKSEEKTPIKKPGDGR	300		
	::::			
MUS	QVKVGHHTAEGVGTNNKVAKRNAENMLEILGFKVPAQPAKPAKSEEKTPVKKPGDGR			
HUM	KVTFFDPGSGDENGTSNKEDEFMPYLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTR	360		
			
MUS	KVTFFEPSPGDENGTSNKDEEFMPYLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTR			
	TED←			
HUM	AAPNPAKATVTAMIARELLYGGTSPTAETILKNNISSGHVPHGPLTRPSEQLDYLSRVQG	420		
			
MUS	AAPNPAKATVTAMIARELLYGGTSPTAETILKSNISSGHVPHGPRTRPSEQLYYLSRAQG			
			→ RBD4	RBD4←
HUM	FQVEYKDFPKNNKNEFVSLINCSSQPPLISHGIGKDVESCHDMAALNILKLLSELDQQST	480		
			
MUS	FQVEYKDFPKNNKNECVSLINCSSQPPLVSHGIGKDVESCHDMAALNILKLLSELDQQST			
HUM	EMPRTGNGPMSVCGRC*	496		
			
MUS	EMPRTGNGPVSACGTC*			

FIGURE 1D

698 >RBD4
DRO ppdkldmddadnpitkllqlqtrkekepefeliatngnetarrefvmevsaaagstargtgnakklakrnaaalfelleavvtptnetqssecccteatmsavtapaveataegk
HUM -----GGINPISRLAQICQAKKEKEPEYTLTTERGLP--RRREFVMQVVKVGNHTAEGTGTNKKVAKRNAENMLEILGFKVPRQPTKPAALKSEKTPIKKPQDGRKVTFDFDPS
CEL -----ghqinpvvarliqvtakakehtfelvaahgvs--kykefiliqvkvgddvqegkgnkrlakraaaeamleesigfvpplpppgkallkkmidodpalpeiashwtgppptav
C PI V E K P F V GP H K F F V VG G G SKK AK AA AL L

818
DRO vpmvatpvgmpgillirqnkkpakkrdqivivkenveskeeeankevavaaeennnneansgdsesgdsqateaaesalntstgntsgvsnesnvgantdgnnhaeskntes
HUM GDENGTSNKEDEFMP-----YLSHQQLPAGILPMVPEVAQVGSQGHHTKDFTRAAPNP-AKATVTAMIARELLYGTSP---TAETILKNN-----ISSGHVPHGPLTRPS---
CEL svatsepdteaaqlspeqtdisekrelepdtekrvrtfnsqvhacpppgdqdpnsivqslkksdaivegkizrllkrekenrraltsequivelaseraqyiqtknttiqsesah---

938 >RBD5
DRO esenstentqsagvhmkeqllylskllldfevnfsdypkgnhneflitvltsthpqqichgvvgksesqndaaenalkileklglnnamk*
HUM -----EQLDYLSEVQGFQVEYKDFPKNNKNEFVSLINCSSQPLISHGIGKOVESCHDMAALNLIKLLSELDOOSTEMPPTGTGNGPMSCVCGRC*
CEL -----hhleqlsdfkfelqytsfpqvqidqhtvsiqlsleaplvghgtgcstteadenaaldaiaklkelsaekt*
C G G SKK AK AA AL L

B)

230
STAUFEN GFKVPRQPTKPAALKSEKTPIKKPGDGRKVTFDFPGSGDENGTSNKEDEFLPYLSHQQLPAGILPMVPEVAQVGVSGHHHTKDFTRAAPNPAKATVTA
MAP1B KEKTKKPGTKTKS88PVKSDGSKSPLAASPKPAGLKESSDKVSRVASPKKESVEKAAKPTTTTPEVKAARGEENKKE TKUANAASASKSAKTATA
2247 2337

FIGURE 1 (cont.)

c)

FIGURE 1' (cont'd)

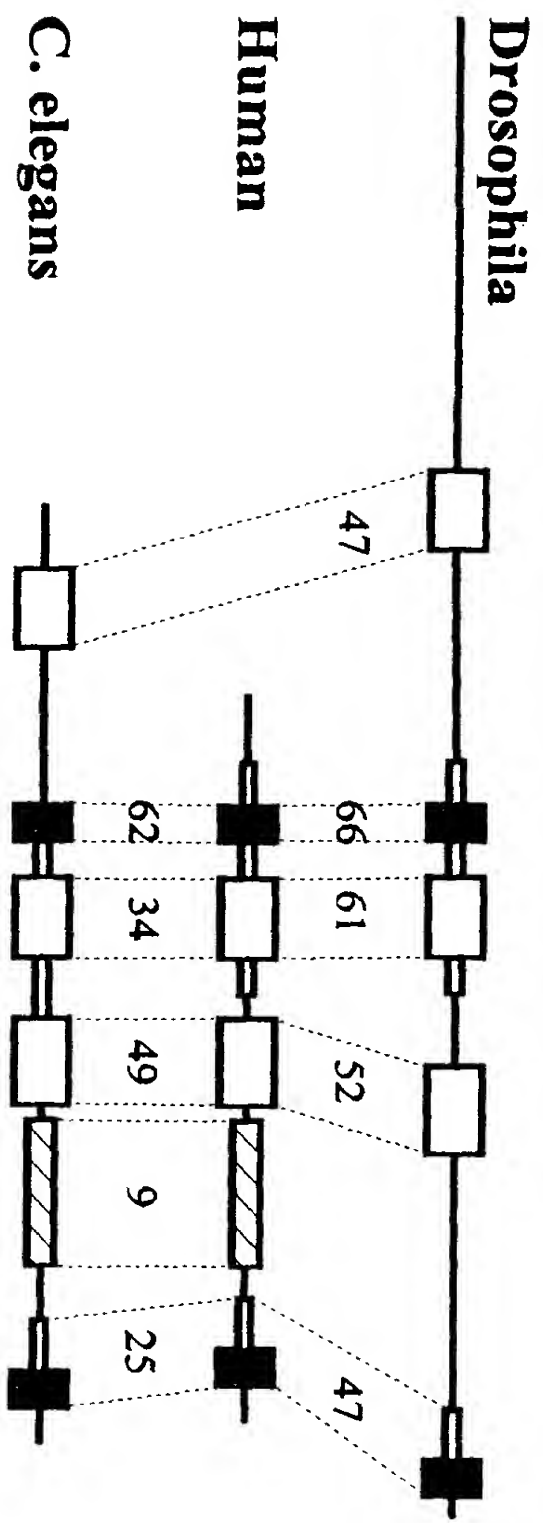


FIGURE 2

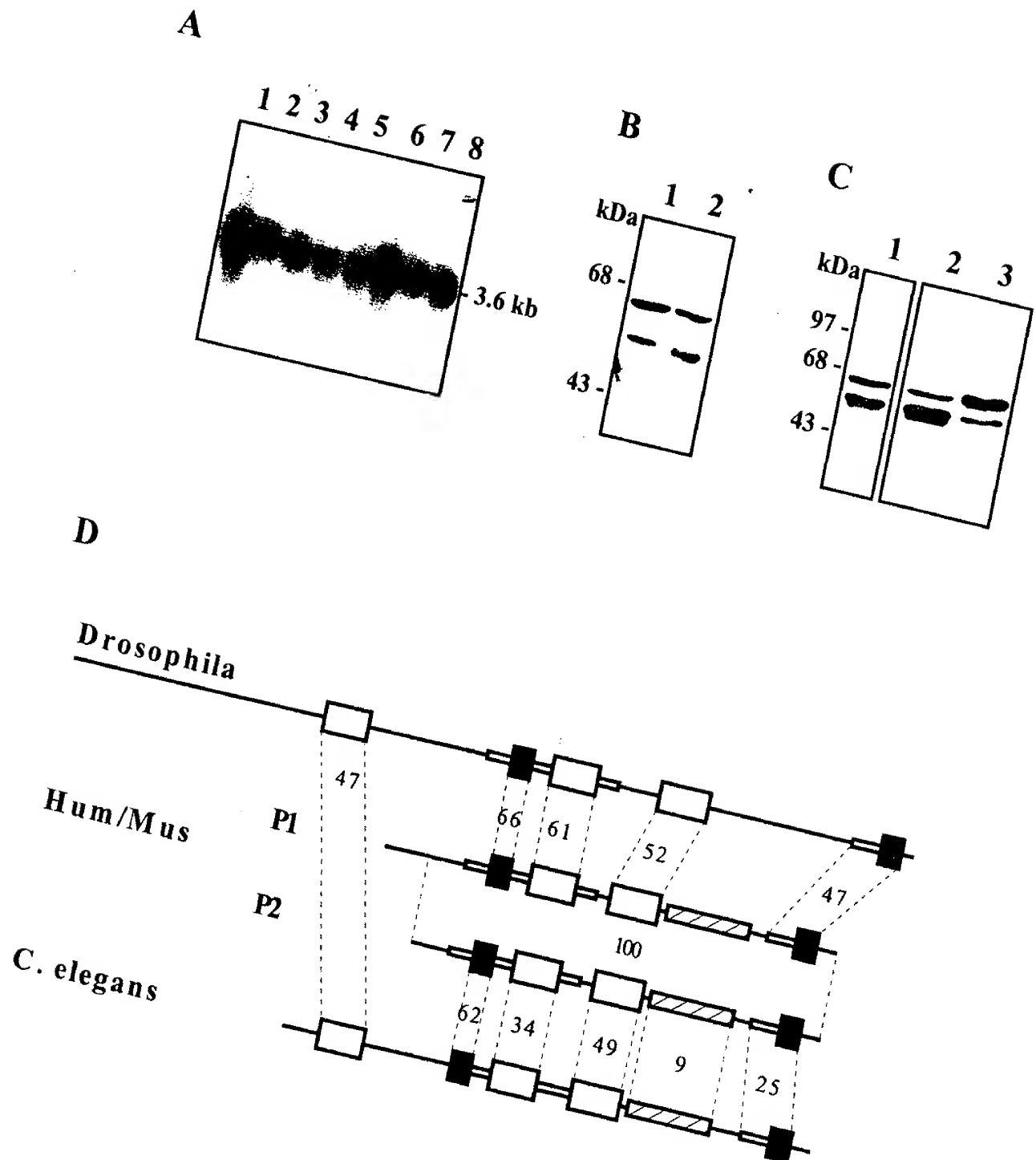
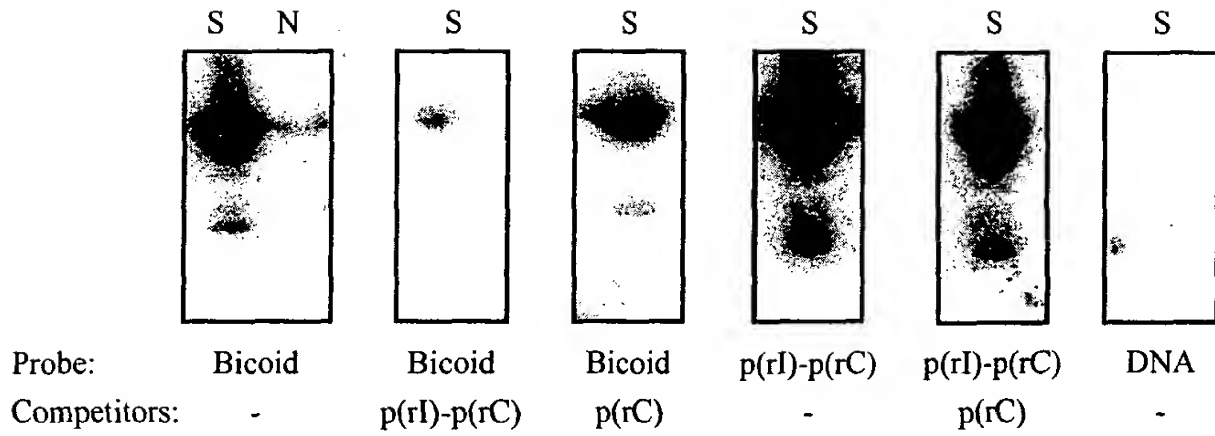
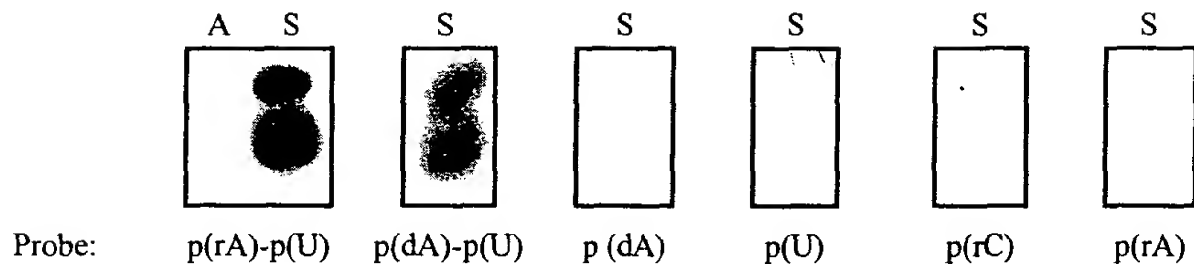


FIGURE 3

A

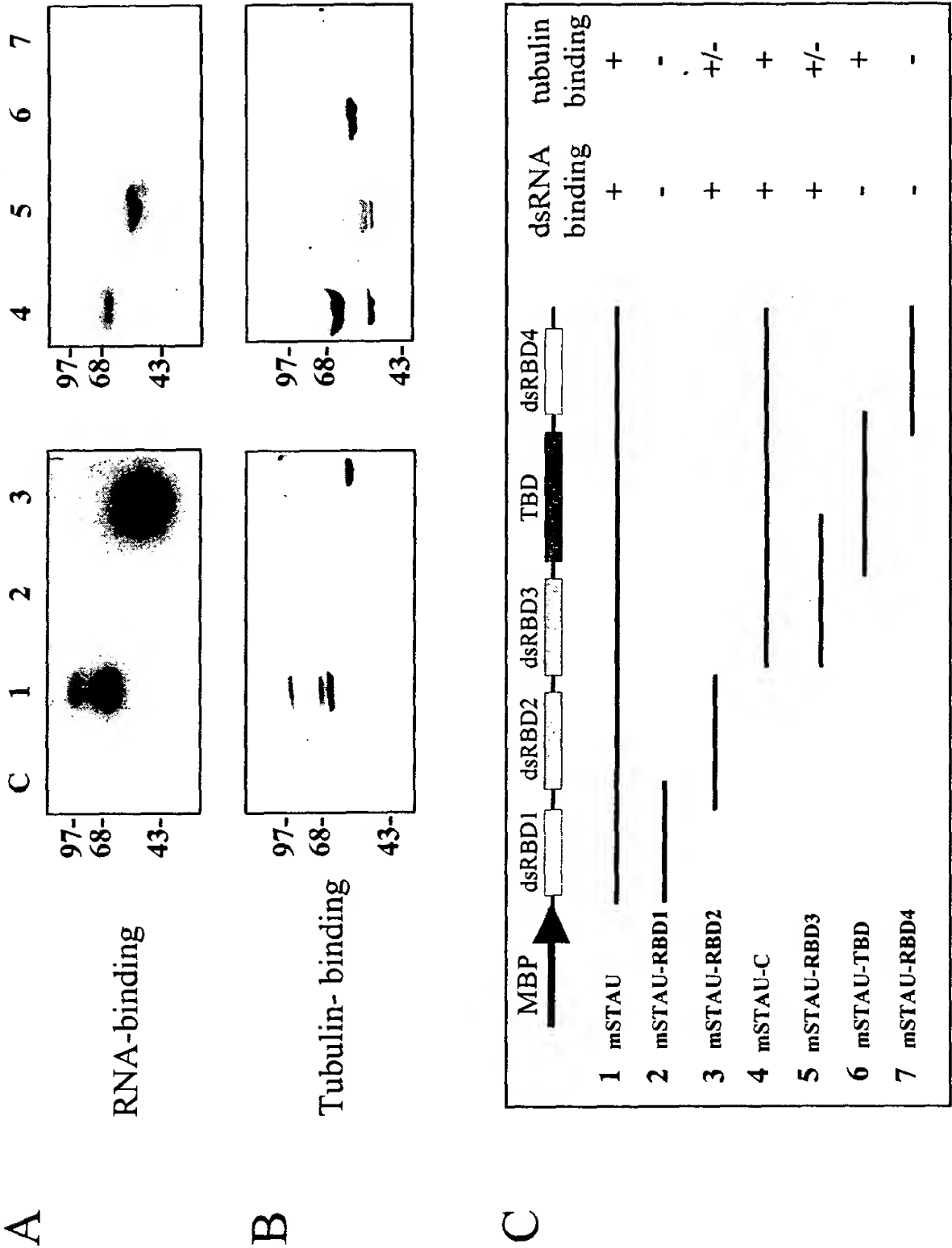


B



Western blot analysis of hStau and tubulin/actin. The figure shows four panels. The first three panels are immunoblots for hStau (97, 68, 43, 29 kDa) and tubulin (29 kDa) using anti-tubulin antibody. The fourth panel is an immunoblot for actin (43 kDa) using anti-actin antibody. Lanes are labeled S (supernatant) and A (adsorbent). Molecular weight markers are indicated on the left of each panel. Tubulin and actin levels are indicated below the panels.

FIGURE 5



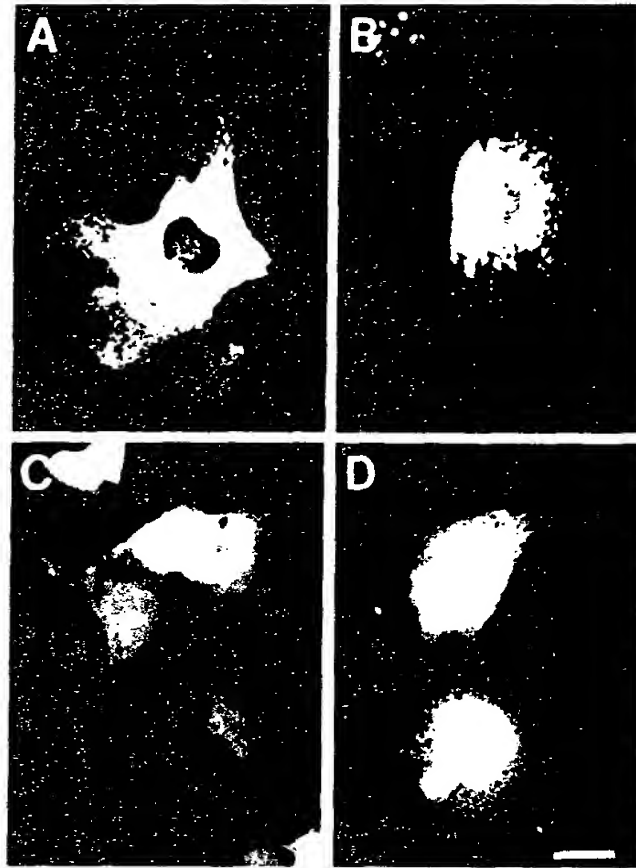


FIGURE 6

FIGURE 7

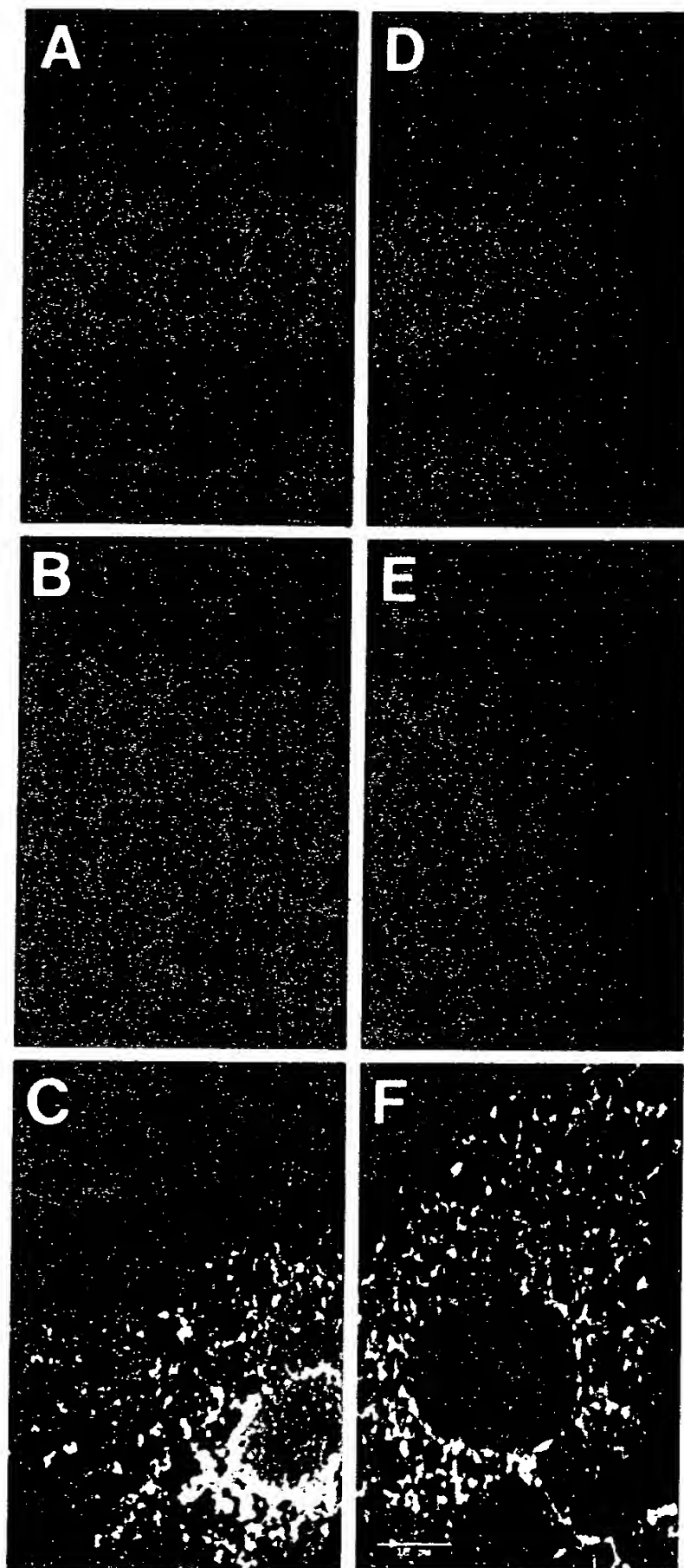
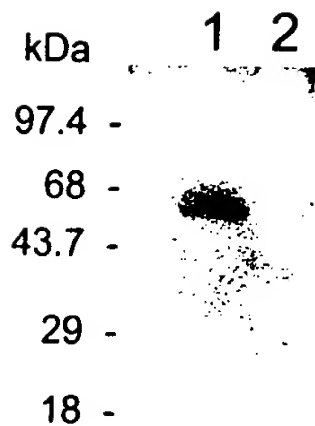
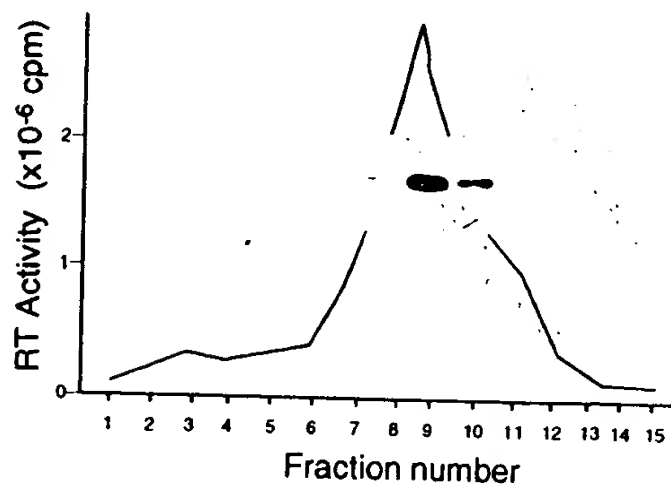


FIGURE 8

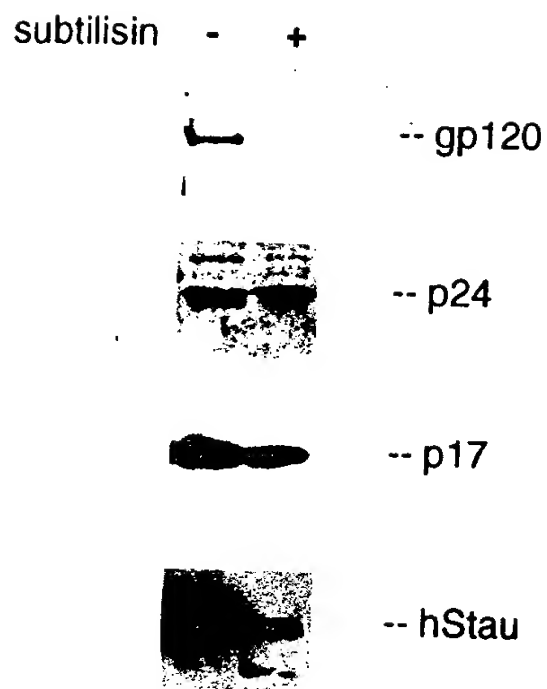
A



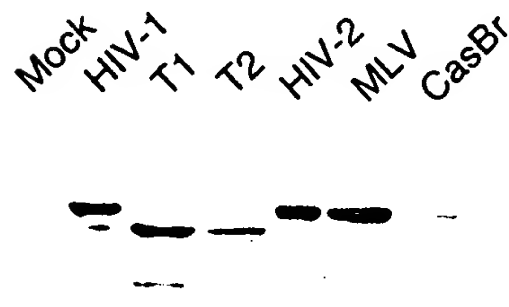
B



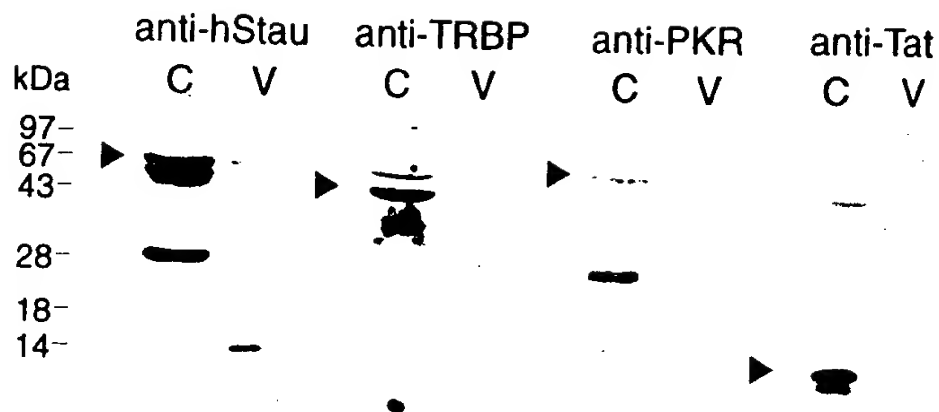
C



D



E



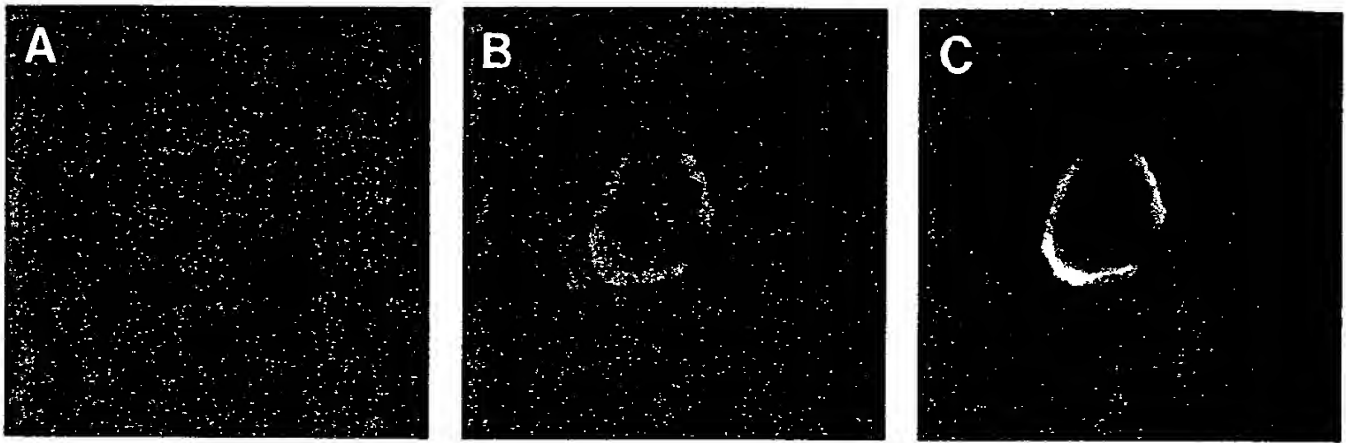


FIGURE 9

FIGURE 10

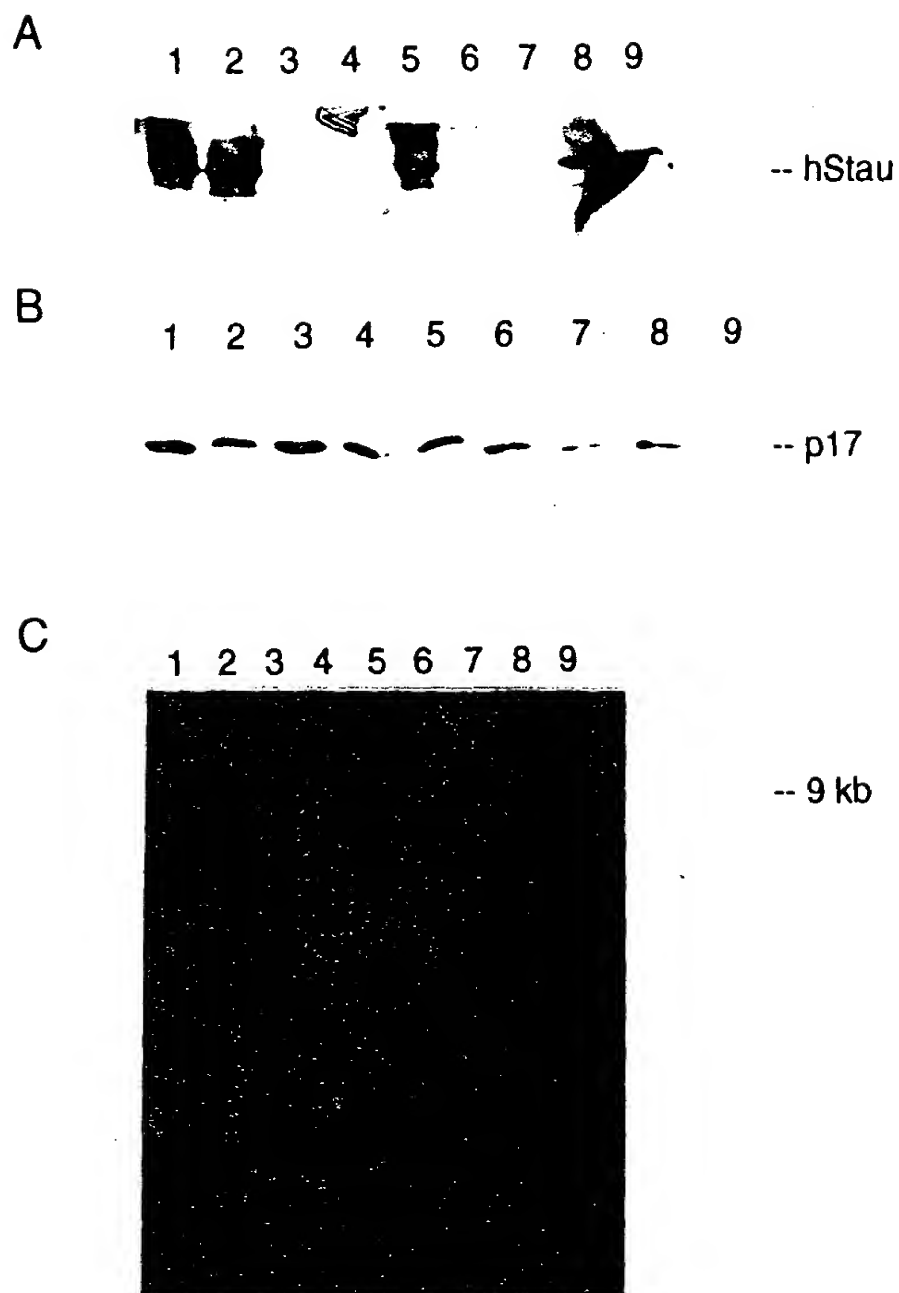


FIGURE 11

